

ART 34 AMDT

CT/US 00/22725
IPEAUS 28 AUG 2001

Pklseq1.app
SEQUENCE LISTING

<110> Ogas, Joseph P.
Somerville, Christopher R.

<120> Methods and Compositions for Regulating Developmental
Identity

<130> 7024-473

<140> Unknown

<141> 2000-08-18

<150> US 60/149,975

<151> 1999-08-20

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<170> MS Notebook

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Asp Arg Thr Phe Glu Gln Val Glu Ala Ile Val Arg Thr Asp Ala Lys
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 Glu Cys Met Ile Val Asp Glu Gly His Arg Leu Lys Asn Lys Asp Ser
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 Lys Leu Phe Ser Ser Leu Thr Gln Tyr Ser Ser Asn His Arg Ile Leu
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 Met His Phe Leu Asp Ala Gly Lys Phe Gly Ser Leu Glu Glu Phe Gln
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 515 520 525
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 225 230 235 240

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 260 265 270

Leu His Pro Tyr Gln Leu Glu Gly Leu Asn Phe Leu Arg Phe Ser Trp
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Ser Lys Gln Thr His Val Ile Leu Ala Asp Glu Met Gly Leu Gly Lys
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Thr Ile Gln Ser Ile Ala Leu Leu Ala Ser Leu Phe Glu Glu Asn Leu
 305 310 315 320

Ile Pro His Leu Val Ile Ala Pro Leu Ser Thr Leu Arg Asn Trp Glu
 325 330 335

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370 375 380

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385 390 395 400

Tyr Glu Met Ile Asn Leu Asp Ser Ala Val Leu Lys Pro Ile Lys Trp
405 410 415

Glu Cys Met Ile Val Asp Glu Gly His Arg Leu Lys Asn Lys Asp Ser
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Lys Leu Phe Ser Ser Leu Thr Gln Tyr Ser Ser Asn His Arg Ile Leu
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465 470 475 480

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485 490 495

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500 505 510

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740

750

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Asp Asp Ala Ala Ile Asp Lys Leu Leu Asp Arg Asp Leu Val Glu Ala
785 790 795 800

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805 810 815

Phe Lys Val Ala Asn Phe Glu Tyr Ile Asp Glu Asn Glu Ala Ala Ala
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850 855 860

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Glu Phe Val Pro Arg Leu Lys Gln Lys Thr Phe Glu Glu Ile Asn Glu
980 985 990

Tyr Gly Ile Leu Phe Leu Lys His Ile Ala Glu Glu Ile Asp Glu Asn
995 1000 1005

Ser Pro Thr Phe Ser Asp Gly Val Pro Lys Glu Gly Leu Arg Ile
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Gly Ile Gln Glu Leu Ile Cys Lys Glu Leu Asn Phe Pro His Ile
1100 1105 1110

Ser Leu Ser Ala Ala Glu Gln Ala Gly Leu Gln Gly Gln Asn Gly
1115 1120 1125

Ser Gly Gly Ser Asn Pro Gly Ala Gln Thr Asn Gln Asn Pro Gly
1130 1135 1140

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Ser	Val	Ile	Thr	Gly	Asn	Asn	Asn	Ala	Ser	Ala	Asp	Gly	Ala	Gln
	1145					1150					1155			
Val	Asn	Ser	Met	Phe	Tyr	Tyr	Arg	Asp	Met	Gln	Arg	Arg	Leu	Val
	1160					1165					1170			
Glu	Phe	Val	Lys	Lys	Arg	Val	Leu	Leu	Leu	Glu	Lys	Ala	Met	Asn
	1175					1180					1185			
Tyr	Glu	Tyr	Ala	Glu	Glu	Tyr	Tyr	Gly	Leu	Gly	Gly	Ser	Ser	Ser
	1190					1195					1200			
Ile	Pro	Thr	Glu	Glu	Pro	Glu	Ala	Glu	Pro	Lys	Ile	Ala	Asp	Thr
	1205					1210					1215			
Val	Gly	Val	Ser	Phe	Ile	Glu	Val	Asp	Asp	Glu	Met	Leu	Asp	Gly
	1220					1225					1230			
Leu	Pro	Lys	Thr	Asp	Pro	Ile	Thr	Ser	Glu	Glu	Ile	Met	Gly	Ala
	1235					1240					1245			
Ala	Val	Asp	Asn	Asn	Gln	Ala	Arg	Val	Glu	Ile	Ala	Gln	His	Tyr
	1250					1255					1260			
Asn	Gln	Met	Cys	Lys	Leu	Leu	Asp	Glu	Asn	Ala	Arg	Glu	Ser	Val
	1265					1270					1275			
Gln	Ala	Tyr	Val	Asn	Asn	Gln	Pro	Pro	Ser	Thr	Lys	Val	Asn	Glu
	1280					1285					1290			
Ser	Phe	Arg	Ala	Leu	Lys	Ser	Ile	Asn	Gly	Asn	Ile	Asn	Thr	Ile
	1295					1300					1305			
Leu	Ser	Ile	Thr	Ser	Asp	Gln	Ser	Lys	Ser	His	Glu	Asp	Asp	Thr
	1310					1315					1320			
Lys	Pro	Asp	Leu	Asn	Asn	Val	Glu	Met	Lys	Asp	Thr	Ala	Glu	Glu
	1325					1330					1335			

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Thr Lys Pro Leu Arg Gly Gly Val Val Asp Leu Asn Val Val Glu
1340 1345 1350

Gly Glu Glu Asn Ile Ala Glu Ala Ser Gly Ser Val Asp Val Lys
1355 1360 1365

Met Glu Glu Ala Lys Glu Glu Glu Lys Pro Lys Asn Met Val Val
1370 1375 1380

Asp

<210> 3

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> 18-19

<223> AFLP Primer EcoRI for AFLP Mapping Analysis in Example 1;
n may be a, g, c or t

<400> 3

agactgcgta ccatttcnn 19

<210> 4

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

ENCLOSURE

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Pklseq1.app

<222> 17-19

<223> AFLP Primer MseI for AFLP Mapping Analysis in Example 1;
n may be a, g, c or t

<400> 4

gatgagtcct gagtaannn 19

<210> 5

<211> 21

<212> DNA

<213> Arabidopsis thaliana

<220>

<223> Primers for PCR of Example 2;
sequence complementary to nucleotides 1725-1745 of SEQ ID NO:1

<400> .5

tggtgagcca gttattcacg a 21

<210> 6

<211> 21

<212> DNA

<213> Arabidopsis thaliana

<220>

<223> Primers for PCR of Example 2;
sequence complementary to nucleotides 1934-1914 in SEQ ID NO:1

<400> 6

acctttccat caattcgetc g 21

<210> 7

<211> 30

<212> DNA

INFORMATION

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<213> Artificial Sequence

<220>

<221> misc_feature

<222> 1-30

<223> Primers for PCR of Example 2

<400> 7

ccgctcgaga accccaatga ccagctcagt 30

<210> 8

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> 1-21

<223> Primers for PCR of Example 2;
sequence complementary to nucleotides 672-652 of
LEC1 cDNA sequence

<400> 8

ccttcttcac ttatactgac c 21

<210> 9

<211> 21

<212> DNA

<213> Arabidopsis thaliana

<220>

<223> Primers for PCR of Example 2;
nucleotides 65-85 of ROC3 cDNA sequence

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AMENDED SHEET

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<400> 9

aagtctactt cgacatgacc g 21

<210> 10

<211> 21

<212> DNA

<213> Arabidopsis thaliana

<220>

<223> Primers for PCR of Example 2;
 sequence complementary to nucleotides 524-504 of ROC3
 cDNA sequence

<400> 10

cttccagagt cagatccaac c 21

<210> 11

<211> 30

<212> DNA

<213> Arabidopsis thaliana

<220>

<223> Primers for PCR of Example 4;
 represent nucleotides 895-924 in SEQ ID NO:1 wherein nucleotide
 907 is changed from "a" to "g"

<400> 11

gaaatgggac taggcaggac aattcaaagc 30

<210> 12

<211> 30

<212> DNA

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<213> Arabidopsis thaliana

<220>

<223> Primers for PCR of Example 4;
represent sequence complementary to nucleotides
924-895 in SEQ ID NO:1, with nucleotide 911 changed from "t" to
"c".

<400> 12

gctttgaatt gtcctgccta gtcccatbbc 30

<210> 13

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> 1-47

<223> Primers for PCR of Example 4

<400> 13

aagccaaaga acatggctcgt tgatctagag gatcctgaag ctcgaaa 47

<210> 14

<211> 52

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> 1-52

<223> Primers for PCR of Example 4

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ENCLOSURE SHEET

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<400> 14

gaatcttgat ttaccagttg agtcattttt gatgaaacag aagctttttg at 52

<210> 15

<211> 21

<212> DNA

<213> Arabidopsis thaliana

<220>

<223> Primers for PCR of Example 4;
represent sequence complementary to nucleotides 4152-4132 in SEQ
ID NO:1

<400> 15

atcaacgacc atgttctttg g 21

<210> 16

<211> 22

<212> DNA

<213> Arabidopsis thaliana

<220>

<223> Primers for PCR of Example 4;
represent nucleotides 4153-4174 in SEQ ID NO:1

<400> 16

tgactcaact ggtaaatacaa ga 22

<210> 17

<211> 30

<212> DNA

<213> Artificial Sequence

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<220>

<221> misc_feature

<222> 1-30

<223> Primers for PCR of Example 5

<400> 17

ccgctcgagt gagtagtttg gtggagaggc 30

<210> 18

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> 1-30

<223> Primers for PCR of Example 5

<400> 18

ccggaattcc atcggaggaa ccttggtcac 30

<210> 19

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> 1-30

<223> Primers for PCR of Example 5

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<222> 1-30

<223> Primers for PCR of Example 5

<400> 24

tgctctagac cctcacataa gtttgtctgc 30

<210> 25

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> 1-31

<223> Primers for PCR of Example 6

<400> 25

cgcggtatcct ttttccactt ctcagtcgg g 31

<210> 26

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> 1-34

<223> Primers for PCR of Example 4

<400> 26

cttcgaactc gagggatccc catggctagc agct 34

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<400> 19
cgcggatccc atcggaggaa ccttggtcac 30

<210> 20
<211> 30
<212> DNA
<213> Artificial Sequence
<220>
<221> misc_feature
<222> 1-30
<223> Primers for PCR of Example 5

<400> 20
tgctctagat gagtagtttg gtggagagggc 30

<210> 21
<211> 30
<212> DNA
<213> Artificial Sequence
<220>
<221> misc_feature
<222> 1-30
<223> Primers for PCR of Example 5

<400> 21
ccgctcgagc cctcacataa gtttgtctgc 30

<210> 22

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<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> 1-30

<223> Primers for PCR of Example 5

<400> 22

ccggaattcg tcttaggaag tccatcaagc 30

<210> 23

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> 1-30

<223> Primers for PCR of Example 5

<400> 23

cgcggatccg tcttaggaag tccatcaagc 30

<210> 24

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

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<210> 27

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> 1-34

<223> Primers for PCR of Example 4

<400> 27

gctagccatg gggatccctc gagttcgaag gtac 34

<210> 28

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> 1-12

<223> Primers for forming cassette inserted into pCAMBIA3300
in Example 4

<400> 28

ccaggtacct gg 12

<210> 29

<211> 20

<212> DNA

Pklseq1.app

<213> Artificial Sequence

<220>

<221> misc_feature

<222> 1-20

<223> Primers for forming cassette inserted into pCAMBIA3300
in Example 4

<400> 29

aattccaggt acctggcatg 20

<210> 30

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> 1-38

<223> Sequence for forming clone of the rat glucocorticoid receptor
in Example 4

<400> 30

tctagaggat cctgaagctc gaaaaacaaa gaaaaaaa 38